TEST REPORT



Dal 27 AUG 2014

Test Report Number

Name & address of the Customer

Name & address of the Manufacturer

Particulars of sample tested Condition of sample on Receipt

Type Designation Serial number Number of samples tested Date(s) of Test(s) CPRI sample code no.

Particulars of tests conducted Test in accordance with Sampling plan Customer's requirement Deviations if any Name of the Witnessing persons Customer's representative Other than Customer's representatives Test subcontracted with address of the laboratory

Documents constituting this report (in words)

Number of sheets	Five
Number of oscillograms	Two
Number of graphs	Nil
Number of photos	One
Number of Test circuit diagrams	Two
Number of drawings	Three

(HIMANGSHU ROY) TEST ENGINEER



M/s Krypton Power Controls (India) Pvt.Ltd., 248, Swaran Park Udyog Nagar, Mundka, New Delhi-110 041

M/s Krypton Power Controls (India) Pvt.Ltd., 248, Swaran Park Udyog Nagar, Mundka, New Delhi-110 041

415V, 4000A LT Control Panel New

PCC Cum MCC Panel Drawout cum fixed type Krypton/50 One 21st August 2014 STDSST214S0773

Verification of the short circuit withstand strength As per clause 8.2.3 of IS: 8623 (Part 1)-1993 Not applicable Nil

Shri Kailash Sharma Nil None



SWITCHGEAR TESTING & DEVELOPMENT STATION GOVINDPURA, BHOPAL-462023, INDIA Phone: +91(0)755 2586682 Fax + 91(0)755 2587774 Sheet 1 of 5

TEST REPORT



Test Report Number S2140703

Date : 27 AUG 2014

Summary of test

Test conducted

Verification of the short circuit withstand strength

50 kArms for 1.0 second with initial peak of 105 kA

Rating for which tested

Oscillogram number

Documents constituting this report

Photograph numbers

Test circuit diagram number

Drawing number

S2140703.S02, S04

P-1

OLTS/TCD-STC-01 & OLTS/TCD-STC-02

KPC/CPRI-TEST PANEL/14-15 Sheet 1 of 3 KPC/CPRI-TEST PANEL/14-15 Sheet 2 of 3 KPC/CPRI-TEST PANEL/14-15 Sheet 3 of 3

TEST ENGINEER

TEST REPORT



Test Report Number S2140703

Date : 127 AUG 2014

Ratings assigned by manufacturer

Test sample

Designation

Serial number

Туре

415V, 4000A, LT Control Panel

PCC Cum MCC Panel

Krypton/50

415 V

4000 A

660 V

Drawout cum fixed type

Rated operational voltage

Rated current

Rated insulation voltage

Rated frequency

Number of phases

Rated short-time current

50 Hz

Three phase + neutral

50 kArms for 1.0 second with initial peak of 105 kA

TEST ENGINEER

SWITCHGEAR TESTING & DEVELOPMENT STATION GOVINDPURA , BHOPAL-462023, INDIA Phone: +91(0)755 2586682 Fax:+ 91(0)755 2587774

TEST REPORT



Test Report Number S2140703

Dat 27 AUG 2014

Verification of the short circuit withstand strength (cl. 8.2.3)

Test conditions:

Condition of the san No. of phases Source frequency Transformer neutral short circuit point Safety parameter Test results :	: Thre : 50Hz & : See te OLTS : The of 0.1	e & Neutral	test and connected to	neutral of the supply via a fuse
Oscillogram	Peak	RMS in kA	Duration	Equivalent current in kArms

Oscillogram Peak	RMS in kA			Duration	Equivalent current in kArms	
Number	kA	Ir	Iy	Ib	(second)	for 1 second
Three phase Short Test circuit diagrar			busbar of 1	HBB+VBB-	HBB (Peak in	Y -phase)
		-510-01	1			
S2140703.S02	105.62	51.02	52.00	50.98	1.0	52.00
Single phase Short	circuit test on	neutral & ne	earest phase	of main bus	bar of HBB+V	BB+HBB
Test circuit diagram						DD IIDD
S2140703.S04	63.75		30.69		1.0	

Observations

During test : No abnormality.

After test : No abnormality. Fine wire fuse Intact. All busbars & supports found intact.

Remarks : After short circuit test the sample withstood HV test at 2.5 kVrms for one minute as per standard.

The test results indicate that the sample tested complies with the requirement of cl. 8.2.3 of the ' Conclusion: standard.

TEST ENGINEER

TEST REPORT



Test Report Number S2140703

Note

Date 27 AUG 2014

- a) The test results relate only to the item(s) tested.
- b) Publication or reproduction of this test report/ certificate in any form other than by complete set of the whole report and in the language written, is not permitted without the written consent of CPRI.
- c) Any correction/erasure invalidates this test report/certificate.
- d) NABL has Accredited this laboratory as per ISO 17025-2005 standard, vide certificate No.T-0011 for the tests carried out..
- e) The verification of the sample drawings by CPRI is limited to dimensional checks only wherever possible.
- f) Any anomaly/discrepancy in the test report/Certificate should be brought to the notice of CPRI within 45 days from the date of issue.
- g) CPRI issues two kinds of documents:

Test Report:

The test report will contain the record of the values of test parameters as obtained during testing, the physical condition of the apparatus during testing, the physical condition of the apparatus during/after the test(s), copy(ies) of Oscillogram(s), record of supplementary test(s) if any conducted but no certification on the performance of the apparatus tested

Type test Certificate:

The test certificate is issued, on request and payment of the prescribed charges only when the apparatus of particular type and rating has satisfactorily passed all the specified tests in compliance with condition stipulated in a published National/International Standards.

- h)
- All Documents constituting this test report/certificate are stitched together with a continuous silk thread/ribbon, the two ends of which have been brought over the front sheet of this test report/certificate and sealed with a CPRI logo printed paper sticker/embossed.

TEST ENGINEER

SWITCHGEAR TESTING & DEVELOPMENT STATION GOVINDPURA , BHOPAL-462023, INDIA Phone: +91(0)755 2586682 Fax:+ 91(0)755 2587774



TEST REPORT

Name & Address of the Client/Manufacturer	Krypton Power Controls (I) P.Ltd. 248,Swarn Park Udyog Nagar, Mundka, New Delhi-110041, India.	
Tested By	Irfan Jr.Engineer	Tel
Reviewed By	Rakesh Chaurasia Operations Head - North	¥
Product Description		
Nomenclature of the Product	Empty Enclosure (500mm x	750mm x 250mm)
Model No. /Type No.		
Serial No.(s)		
Quantity	One	
Total No. of Pages	05	
Year of Manufacture	2013	
Project Details		
Project Number	CE-JOB-DEL-13-000420	
Report Number	CE-JOB-DEL-13-000420-00	1
Date of receipt of item	19.08.013	
Condition of item on its receipt	PHYSICALLY GOOD	
Date of completion of testing	30.08.2013	
Date of Issue	31.08.2013	
Testing Details		
Testing Location	Intertek India Private Limite E-20, B-1, Mohan Co-operat New Delhi – 110044, India	
Details of Testing	IP 65	
Applicable Standard Specification	IEC 60529 Edition 2.1, 2001	-02

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Registered Off. : Intertek India Private. Limited, E-20, Block B1, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi-110 044, India Telephone: +91-11-4159 5460 Facsimile : +91-11-4159 5475 www.intertek.com





Page 2 of 3

Test Results: Model No. Empty Enclosure (500mm x 750mm x 250mm)

S.No	Test	Test Conditions	Requirements	Observations	Remarks
1	IP 6X (Protection against Access to hazardous parts)	As per IEC 60529:2001	Enclosure should provide protection of persons against access to hazardous parts by preventing or limiting the ingress of a part of the human body or an object held by a person. Test wire of 1.0mm Ø shall not penetrate the enclosure and adequate clearance shall be kept between the test wire and hazardous parts.	The test finger did not penetrate inside UUT.	Pass
	IP 6 X (Protection against solid foreign body)	As per IEC 60529:2001	Enclosure should provide protection of equipment against the ingress of solid foreign objects. No dust shall deposit where it could lead to tracking along the creepage distances.	Category – I Equipment. No Ingress of Powder found inside the UUT.	Pass
2	IP X5	As per IEC 60529:2001	Enclosure should provide protection with respect to harmful effects on the equipments due to ingress of water.	No Ingress of water observed inside the UUT.	Pass

REMARKS:

- The test results presented in the test report relates only to the sample received for testing.





Page 3 of 3

Report No.: CE-JOB-DEL-13-000420-001

Photographs

Model No. Empty Enclosure (500mm x 750mm x 250mm)



Front View



Internal View







National Accreditation Board for **Testing and Calibration Laboratories** Department of Science & Technology, India

CERTIFICATE OF ACCREDITATION

INTERTEK INDIA PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

E-20, Block B1, Mohan Co-operative Industrial Area, Mathura Road, New Delhi

in the discipline of

ELECTRICAL TESTING

(To see the scope of acc ion of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number T-1199

Issue Date

Valid Until 12/12/2014

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

Bibin Philip

Convenor

lamon

Dr T. Ramasami Chairman

Anil Relia Director



NABL

Department of Science & Technology, India

SCOPE OF ACCREDITATION

Intertek India Private Limited, E-20, Block B1, Mohan Co-operative Industrial Area, Mathura Road, New Delhi Laboratory ISO/IEC 17025: 2005 Accreditation Standard Discipline **Electrical Testing** Issue Date 13.12.2012 **Certificate Number** Valid Until 12.12.2014 T-1199 Last Amended on Page 55 of 76 Specific Test Performed **Test Method Specification** Range of Testing / Material of Test against which tests are Limits of Detection performed Enclosures Degree of Protection provided by EN 60529:1991+A1:2000 0-25.4 mm/0.001mm Enclosures - Ingress of solid IEC 60529:2001 0-150mm/0.01mm foreign objects. IP1X to 4X Add : IEC 60034-5 : 2000 + Amd.1 2006 Dust Protection IP5X-Dust Tight Pressure : IP6X 1 mmH₂0 to 500mm H₂0/1mm 0-150mm/0.01mm Scale: 0-300 mm/1mm Ingress of Water - IPX1 Time : 0-99.59 hrs/ 0.01 s Enclosure in fixed positions of Scale:0-300 mm/1mm tilt IPX2 Time : 0-99.59 hrs/ 0.01 s Angle : 0-30deg/0.1deg Oscillating Tube Spray /Nozzle Scale: 0-300 mm/1mm IPX3 Time : 0-99.59 hrs/ 0.01 s Volume : 0-10ltr/1ml Oscillating Tube Spray/Nozzle Scale:0-300 mm/1mm IPX4 Time : 0-99.59 hrs/

Convenor

0.01 s

Volume : 0-10ltr/1ml

fe.



Certificate of Registration

This is to certify that The Quality Management Systems

Of

KRYPTON POWER CONTROLS (INDIA) PVT. LTD.

at

248, SWARAN PARK, UDYOG NAGAR, MUNDKA, NEW DELHI - 110 041 (INDIA)

Has been found to conform to the Quality Management System Standard:

ISO 9001:2008

This certificate is valid for the following Product or Service ranges:

CONTROL PANEL MANUFACTURER & ELECTRICAL CONTRACTOR

 CERTIFICATE NO.
 : PCMS/QMS/1825-2014

 ISSUED ON
 : 03/05/2014

 VALIDITY DATE
 : 02/05/2017

 THE VALIDITY OF CERTIFICATE IS SUBJECT TO REGULAR SURVEILLANCE AUDIT ON OR BEFORE

 ABOVE MENTIONED DATES AND IT'S ONLY VALID AFTER SUCCESSFUL SURVEILLANCE WITH CONTINUATION

 LETTER ISSUED BY PCMS

NENBER OF MULTILATER,



CHAIRMAN / DIRECTOR

AUTHORISED BY

P.C MANAGEMENT SYSTEM PVT. LTD. 134-A, IIND FLOOR, TAIMOOR NAGAR, New Friends Colony, New Delhi – 110 065 (INDIA) THIS IS SINGLE-SITE CERTIFICATION WEBSITE - WWW.PCMSINDIA.COM